State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-107 Relating to Certification of New Motor Vehicles

TOYOTA MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1988 model-year Toyota Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
JTY1.6V2FCC5	1.6	(96.8)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor		

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Grams per Mile	Grams per mile	Grams per Mile		
0.39	7.0	0.7		

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
Grams per Mile	Grams per Mile	Grams per Mile	
0.19	1.8	0.3	

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles , if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.) and with Health and Safety Code Section 43204.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 26 day of August, 1987.

K. D. Drachand, Chief ${\cal O}$ Mobile Source Division

17.11.00 Supplemental data s	heets	
1988 AIR RE	SOURCES BOARD SUPPLEMENTAL DATA SH	EET E.O. # A-14-10.7
		Page1
Manufacturer Toyota Motor Corp	oration Engine Family	6V2FCC5
Evaporative FamilyEV-A	Engine Type 4 cyl	. in-line
	Liters (CID)1.6 (96.8)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor	AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification OC-Oxidation Catalyst OS-Oxygen sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyst	CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger
VEHICLE MODELS : Corolla AE92L-AEN -AEN	MDUA AE92L-AWMDUA MNUA -AWHDUA	
-aei -aci -aci -aci -aci	PNUA IDUA IXUA IDUA	
Engine: Front <u>x</u> Mid Drive: FWD <u>x</u> RWD	Rear 4WD Full time 4WD Pag	rt time

Page : 17.11-9 Issued : 05/26/87

E.O. #	A - 14-16 7	*
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	1988 A	IR RESO	URCES B	OARD SUPPLEM	ENTAL DATA S	HEET	
.						Pag	e <u> 2 </u>
Passenger	Cars <u>x</u> Light-D	uty Tru	cks	Medium-Duty	Vehicles	_ Gas <u>x</u> Di	esel
Manufactur	er <u>Toyota Mo</u>	tor Cor	poration	n Engin	e family	JTY1.6V	2FCC5
Liter (CID)1.6_	(96.8)		Eng. '	Type 4 cyl	. in-line	
Emission C	ontrol Sys. (Spe	cial Fe	atures)		AIV + EGR +	os + TWC	
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer	Туре	Test	EI, CA, VA	2V, CL Part No.	EGR Valve	Catalyst Part No.
	to 08.13.03.00)			tor]	_		
l thru 4	AE92L-AEMDUA -AEMNUA -ACMDUA -ACMXUA -AWMDUA	M5	2,500 2,625	19030-16120	21100-16340	25620-16070	18450-16220
5 thru 8	-achdua -awhdua	A3	2,625 2,750		21100-16350	25620-16080	•

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

'Page : 17.11-10

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